SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Anand, Naveen N
Barber, Brian H
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Caterini, Judith E
Klein, Michel H

(ii) TITLE OF INVENTION: CHIMERIC ANTIBODIES FOR DELIVERY OF ANTIGENS TO SELECTED CELLS OF THE IMMUNE SYSTEM

(iii) NUMBER OF SEQUENCES: 20

(iv) CORRESPONDENCE ADDRESS:
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(v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:
(A) APPLICATION NUMBER:
(B) FILING DATE:
(C) CLASSIFICATION:

(vii) PRIOR APLICATION DATA:
(A) APPLICATION NUMBER: US 08/483,576
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(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:
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(C) REFERENCE/DOCKET NUMBER: 1038-765

(ix) TELECOMMUNICATION INFORMATION:
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(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 387 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

```
ATGGACATGA GGGTTCCTGC TCACGTTTTT GGCTTCTTGT TGCTCTGGTT TCCAGGTACC      60
AGATGTGACA TCCAGATGAC CCAGTCTCCA TCCTCCTTAT CTGCCTCTCT GGGACAAAGA     120
GTCAGTCTCA CTTGTCGGGC AAGTCAGGAA ATTAGTGGTT ACTTAACCTG GCTTCAGCAG     180
AAACCAGATG GAACTATTAA ACGCCTGGTC TACGCCGCGT CCACTTTAGA TTCTGGTGTC     240
CCAAAAAGGT TCAGTGGCAG TAGGTCTGGG TCAGATTATT CTCTCACCAT CAGCAGCCTT     300
GAGTCTGAAG ATTTTGCAGA CTATTACTGT CTACAATATA CTAATTATCC GCTCACGTTC     360
GGTGCTGGGA CCAAGCTGGA GCTGAAA                                         387
```

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 129 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

```
Met Asp Met Arg Val Pro Ala His Val Phe Gly Phe Leu Leu Leu Trp
1               5                   10                  15

Phe Pro Gly Thr Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser
            20                  25                  30

Leu Ser Ala Ser Leu Gly Gln Arg Val Ser Leu Thr Cys Arg Ala Ser
        35                  40                  45

Gln Glu Ile Ser Gly Tyr Leu Thr Trp Leu Gln Gln Lys Pro Asp Gly
    50                  55                  60

Thr Ile Lys Arg Leu Val Tyr Ala Ala Ser Thr Leu Asp Ser Gly Val
65                  70                  75                  80

Pro Lys Arg Phe Ser Gly Ser Arg Ser Gly Ser Asp Thr Ser Leu Thr
                85                  90                  95

Ile Ser Ser Leu Glu Ser Glu Asp Phe Ala Asp Tyr Tyr Cys Leu Gln
            100                 105                 110

Tyr Thr Asn Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu
        115                 120                 125

Lys
```

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 420 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

```
ATGGCTCTCC TGGTACTGTT CCTCTCCCTG GCTGCATTTC CAAGCTGTGG TGTCCTGTCC     60
CAGGTGCAGC TGAAGGAGTC AGGACCTGGC CTGGTGGCGC CCTCACAGAG CCTGTCCATC    120
ACTTGCACTG TCTCTGGGTT TTCATTAACC AGCTATGGTG TACACTGGGT TCGCCAGCCT    180
CCAGGAAAGG GTCTGGAGTG GCTGGGAGTA ATATGGGCTG GTGGAAGCAT AAATTATAAT    240
TCGGCTCTCA TGTCCAGACT GAGCATCAGC AAAGACAACT TCAAGAGCCA AGTTTTCTTA    300
AAAATGAGCA GTCTGCAAAC TGATGACACA GCCATGTACT ACTGTGCCAG AGCCTATGGT    360
GACTACGTCC ACTATGCTAT GGACTACTGG GGTCAAGGAA CCTCAGTCAC CGCCTCCTCA    420
```

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 140 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

```
Met Ala Leu Leu Val Leu Phe Leu Ser Leu Ala Ala Phe Pro Ser Cys
1               5                   10                  15

Gly Val Leu Ser Gln Val Gln Leu Lys Glu Ser Gly Pro Gly Leu Val
            20                  25                  30

Ala Pro Ser Gln Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser
        35                  40                  45

Leu Thr Ser Tyr Gly Val His Trp Val Arg Gln Pro Pro Gly Lys Gly
    50                  55                  60

Leu Glu Trp Leu Gly Val Ile Trp Ala Gly Gly Ser Ile Asn Tyr Asn
65                  70                  75                  80

Ser Ala Leu Met Ser Arg Leu Ser Ile Ser Lys Asp Asn Phe Lys Ser
                85                  90                  95
```

Gln Val Phe Leu Lys Met Ser Ser Leu Gln Thr Asp Asp Thr Ala Met
100 105 110

Tyr Tyr Cys Ala Arg Ala Tyr Gly Asp Tyr Val His Tyr Ala Met Asp
115 120 125

Tyr Trp Gly Gln Gly Thr Ser Val Thr Ala Ser Ser
130 135 140

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 34 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Gly Pro Lys Glu Pro Phe Arg Asp Tyr Val Asp Arg Phe Tyr Lys Asn
1 5 10 15

Lys Arg Lys Arg Ile His Ile Gly Pro Gly Arg Ala Phe Tyr Thr Thr
20 25 30

Lys Asn

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 108 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

GGTCCTAAAG AACCTTTTAG AGACTATGTT GATAGGTTTT ATAAGAATAA GAGGAAGAGG 60

ATACATATAG GGCCTGGTAG GGCTTTTTAT ACTACTAAGA ATTAATAA 108

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 60 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

CATTATGGAT CCGGTCCTAA AGAACCTTTT AGAGACTATG TTGATAGGTT TTATAAGAAT 60

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 51 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

GCCCTACCAG GCCCTATATG TATCCTCTTC CTCTTATTCT TATAAAACCT A 51

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 51 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

AGGGCCTGGT AGGGCTTTTT ATACTACTAA GAATTAATAA AAGCTTTAGC G 51

(2) INFORMATION FOR SEQ ID NO:10:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 20 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

CATTATGGAT CCGGTCCTAA 20

(2) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 30 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

GTCAGGTACC GGTCCTAAAG AACCTTTTAG 30

(2) INFORMATION FOR SEQ ID NO:12:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 21 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

GGCTAAAGCT TTTATTAATT C 21

(2) INFORMATION FOR SEQ ID NO:13:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 38 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

AGCCTAAGCT TCCGCCATGG ACATGAGGGT TCCTGCTC 38

(2) INFORMATION FOR SEQ ID NO:14:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 33 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

CCGTTTCAGC TCGAGCTTGG TCCCAGCACC GAA 33

(2) INFORMATION FOR SEQ ID NO:15:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 40 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

CCTACTCGAG CTGAAACGGA CTGTGGCTGC ACCATCTGTC 40

(2) INFORMATION FOR SEQ ID NO:16:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 44 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

ATTAAAGCTT TTACTAGGAT CCACACTCTC CCCTGTTGAA GCTC 44

(2) INFORMATION FOR SEQ ID NO:17:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 36 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

AGCTAAGCTT CCGCCATGGC TCTCCTGGTA CTGTTC 36

(2) INFORMATION FOR SEQ ID NO:18:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 29 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

GCGCACTAGT TCCTTGACCC CAGTAGTCC 29

(2) INFORMATION FOR SEQ ID NO:19:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 52 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

GCGCACTAGT GTCACCGCCT CCTCAGCCTC CACCAAGGGC CCATCGGTCT TC 52

(2) INFORMATION FOR SEQ ID NO:20:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 43 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

ACGCAAGCTT TTACTAGGTA CCTTTACCCG GAGACAGGGA GAG 43